

# PATENT ABSTRACTS OF JAPAN

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## (54) POWER CONTROL METHOD

(57)Abstract:

**PROBLEM TO BE SOLVED:** To minimize the lapse of time after step-wise change of communication quantity until the transmission power of a controlled transmission cruster is controlled optimally by considering at least a part of transmission power control history through calculation.

**SOLUTION:** Connection (communication) quality information is received from a mobile station. A control function is generated, based on at least the connection quality information and control history of a power level of the mobile station. The control function is calculated, and a new value to obtain the outputted power of controlled transmission is obtained by this calculation result. When all the calculated values of the outputted power do not exist within an allowable critical value, the values of outputted power to exceed the allowable critical value are replaced with the maximum allowable quantity and the values below the critical value are replaced with lower critical values.

Checks as to whether or not a desired SIR(signal-to-interference ratio) value is obtained as a corrected value is performed, and when a desired SIR level is obtained, the checked value is adopted.

